

# BookletChart<sup>TM</sup>

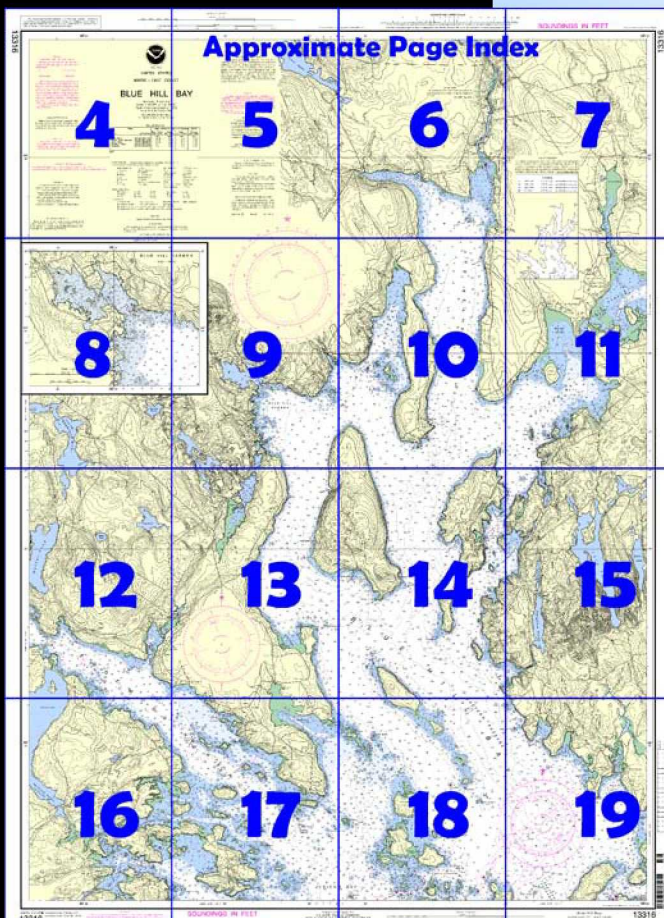
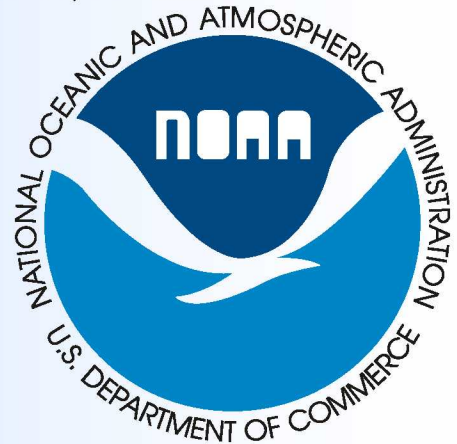
## Blue Hill Bay

(NOAA Chart 13316)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ☒ Complete, reduced scale nautical chart
- ☒ Print at home for free
- ☒ Convenient size
- ☒ Up to date with all Notices to Mariners
- ☒ United States Coast Pilot excerpts
- ☒ Compiled by NOAA, the nation's chartmaker.



*Home Edition (not for sale)*





### What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

### What is a BookletChart™?

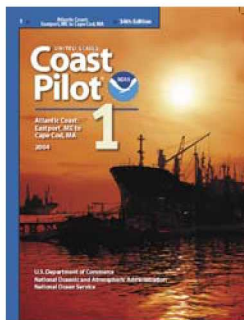
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

### Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



#### **[Coast Pilot 1, Chapter 6 excerpts]**

(283) **Blue Hill Bay**, west of Mount Desert Island, is about 14 miles long. In the bay are several large and some small islands, between which are good channels with deep water.

The dangers are comparatively few; the most prominent are marked by buoys. There are numerous coves on both sides of the bay.

(285) The bay is frequented by many cruise sailing vessels, fishing craft, and yachts. Gasoline and provisions are obtainable at most of the villages.

(287) The current floods northward and ebbs southward. Velocities of 2 knots have been observed near Staple Ledge at the south end of the bay.

(288) **Bass Harbor**, in the southwest end of Mount Desert Island just westward of Bass Harbor Head, is an important fishing port. The harbor is sometimes used as an anchorage by vessels bound through the inside passage. The outer harbor is exposed southward, but clear with the

exception of **Weaver Ledge**, which is in the middle of the entrance and uncovers 3 feet. Two buoys mark the ledge.

(289) Vessels can enter on either side of Weaver Ledge and anchor between the ledge and the entrance to the inner harbor in depths of 30 to 46 feet, soft bottom in places.

(291) **Bass Harbor** is a village on the east shore of Bass Harbor. It is the headquarters for many fishing vessels and has a fish cannery, which in 1979 was being rebuilt. The twin elevated tanks of the cannery are conspicuous, as is the belfry of a church at the head of the harbor. The cannery wharf, on the east side of the inner harbor about 1.1 miles north of Bass Harbor Head Light, has a reported depth of 7 feet alongside. A smaller seafood company wharf, close northward, has a depth of 10 feet reported alongside. Gasoline, diesel fuel, water, ice, and some marine supplies are available at this wharf.

(293) A marina with a float landing is on the east side of the outer harbor, about 400 yards southward of the cannery wharf; depths of 10 feet are reported at the float landing. A 30-ton mobile hoist at the marina can handle craft up to 50 feet for hull and engine repairs. Gasoline, diesel fuel, water, ice, and some marine supplies are available. The slip for the State automobile and passenger ferry to Swans Island and Lunt Harbor on Long Island is close northward of the marina.

(295) **Bernard** There are two fish and lobster wharves with float landing with 6 feet reported alongside. Gasoline, diesel fuel, and some marine supplies can be obtained at the landings.

(299) **Goose Cove**, on the eastern side of Blue Hill Bay 2 miles northwestward of Bass Harbor, is frequented by fishing boats. The cove has good holding ground and offers excellent anchorage for small boats except in heavy southwesterly weather. A shoal is in midharbor.

(305) **Pretty Marsh Harbor** makes into the eastern shore of Blue Hill Bay northeastward of Hardwood Island. There is good anchorage in depths of 8 to 37 feet. **Folly Island**, a grassy island with a few trees, is in the entrance. There are no dangers away from the shore, except for a ledge, covered 3 feet, about 250 yards east of Folly Island. In 1970, two bare rocks were reported on this ledge; caution is advised. Several float landings are on the east side of the harbor.

(319) **Pond Island Passage** is used by vessels entering Blue Hill Bay from westward and sometimes by vessels following the inside route eastward or westward. The passage has a least depth of 19 feet in the buoyed channel, but there are dangers close to the sailing lines. The buoys are colored and numbered for vessels bound westward.

(336) **Blue Hill Harbor**, northwestward of Long Island, is a large bight in the northwestern part of Blue Hill Bay.

(343) Vessels may enter the inner harbor by passing on either side of the Middle Ground. The eastern channel is easier and safer, and leads eastward of the two buoys and northward of the shoal.

(344) It is reported that some small craft, at or near low water, have attempted to pass between the buoys marking the eastern edge of the Middle Ground. It is advisable at all times to pass east and north of both buoys when using the eastern channel.

(345) The western channel, deep and more direct, leads between the unmarked western edge of the Middle Ground and the buoy eastward of Parker Point. Most powered craft use the western channel, and sailing craft the eastern.

(353) The village of **Blue Hill** a hospital, pharmacy, churches, restaurants, lodgings, markets, and a bank. Some repairs can be made. Provisions, water, ice, bottled gas, and marine supplies are available. Diesel fuel and gasoline can be supplied at the landings from tank trucks.

(369) **Blue Hill Bay** is approached from eastward across Bass Harbor Bar; from southward through Eastern Passage between Placentia Island and Swans Island, and from westward through Jericho Bay, which is entered through Merchants Row, Deer Island Thorofare, or Eggemoggin Reach. The channels between Blue Hill and Jericho Bays are Casco Passage, York Narrows, Pond Island Passage, and Flye Island Channel.

These approaches are more or less obstructed by islands and ledges, but are sufficiently marked to be safely navigated in clear weather.

# Table of Selected Chart Notes

**HEIGHTS**  
Heights in feet above Mean High Water.

Corrected through NM May 3/03  
Corrected through LNM Apr. 22/03

**CAUTION**  
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

**NOAA VHF-FM WEATHER BROADCASTS**  
The National Weather Service station listed below provides continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Ellsworth, ME	KEC-93	162.40 Mhz
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**HORIZONTAL DATUM**  
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.282" northward and 1.918" eastward to agree with this chart.

**CAUTION**  
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.  
During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

**WARNING**  
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

**SUPPLEMENTAL INFORMATION**  
Consult U.S. Coast Pilot 1 for important supplemental information.

**AIDS TO NAVIGATION**  
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

**CAUTION**  
Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Imagery and Mapping Agency Publication 117.  
Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.  
Station positions are shown thus:  
○ (Accurate location)    ◦ (Approximate location)

**RADAR REFLECTORS**  
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

**CAUTION**  
**SUBMARINE PIPELINES AND CABLES**  
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area      Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.  
Covered wells may be marked by lighted or unlighted buoys.

**POLLUTION REPORTS**  
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

**NOTE A**  
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 1. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 1st Coast Guard District in Boston, MA or at the Office of the District Engineer, Corps of Engineers in Concord, MA.  
Refer to charted regulation section numbers.

**SOURCE DIAGRAM**  
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

**AUTHORITIES**  
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, and U.S. Coast Guard.

**CAUTION**  
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

**COLREGS, 80.105 (see note A)**  
International Regulations for Preventing Collisions at Sea, 1972.  
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

**ABBREVIATIONS** (For complete list of Symbols and Abbreviations, see Chart No. 1.)  
Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N run	Rot rotating
B black	iso isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
D/A diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	Grs grass	M mud	S sand	sy sticky

Miscellaneous:

AUTH authorized	Obstr obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	
⚓ Wreck, rock, obstruction, or shoal swept clear to the depth indicated.			
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.			

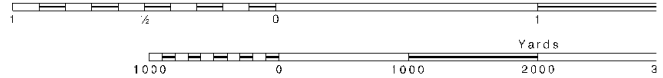
TIDAL INFORMATION					
Place		Height referred to datum of soundings (MLLW)			
Name	(LAT/LONG)	Mean High Water	Mean High Water	Mean Low Water	Extreme Low Water
		feet	feet	feet	feet
Bass Harbor	(44°14'N/68°21'W)	10.8	10.3	0.4	-4.0
Mount Desert Narrows	(44°26'N/68°22'W)	11.4	10.9	0.4	-4.0
Union River	(44°30'N/68°26'W)	11.3	10.6	0.4	-4.0
Naskeag Harbor	(44°14'N/68°33'W)	11.1	10.6	0.4	-4.0
Sedgwick	(44°18'N/68°38'W)	11.1	10.6	0.4	-4.0

(303)

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SCALE 1:40,000

Nautical Miles



13316

68°40'

35'

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Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

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**WARNING**

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

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International Regulations for Preventing Collisions at Sea, 1972.  
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Station positions are shown thus:

⊙ (Accurate location) ○ (Approximate location)

**POLLUTION REPORTS**

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).



UNITED STATES  
MAINE - EAST COAST

# BLUE HILL BAY

Mercator Projection  
Scale 1:40,000 at Lat. 44°22'  
North American Datum of 1983  
(World Geodetic System 1984)

SOUNDINGS IN FEET  
AT MEAN LOWER LOW WATER

**TIDAL INFORMATION**

Name	Place (LAT/LONG)	Height referred to datum of soundings (MLLW)			
		Mean High Water	Mean Low Water	Mean Low Water	Extreme Low Water
Bass Harbor	(44°14'N/68°21'W)	10.8	10.3	0.4	-4.0
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(303)

**ABBREVIATIONS** (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	Is isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

**Bottom characteristics:**

Bds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	Grs grass	M mud	S sand	sy sticky

**Miscellaneous:**

AUTH authorized	Obtn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	
(2) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.			
(2) Rocks that cover and uncover, with heights in foot above datum of soundings.			

**HEIGHTS**

Heights in foot above Mean High Water.

**AUTHORITIES**

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, and J.S. Coast Guard.

**SUPPLEMENTAL INFORMATION**

Consult U.S. Coast Pilot 1 for important supplemental information.

NOAA an updated we critical corre using Print-c available 5-t NOAA charts. charts or http://Nautic OceanGraflix or help@Oce

Navigation Coast Pilot 1. lished n the l the regulation mander, st C Office of the Concord, MA. Refer to c

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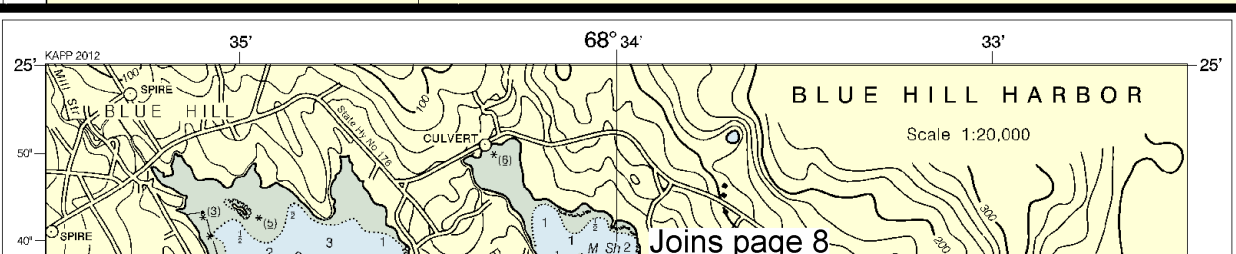
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SCALE 1:40,000  
Nautical Miles

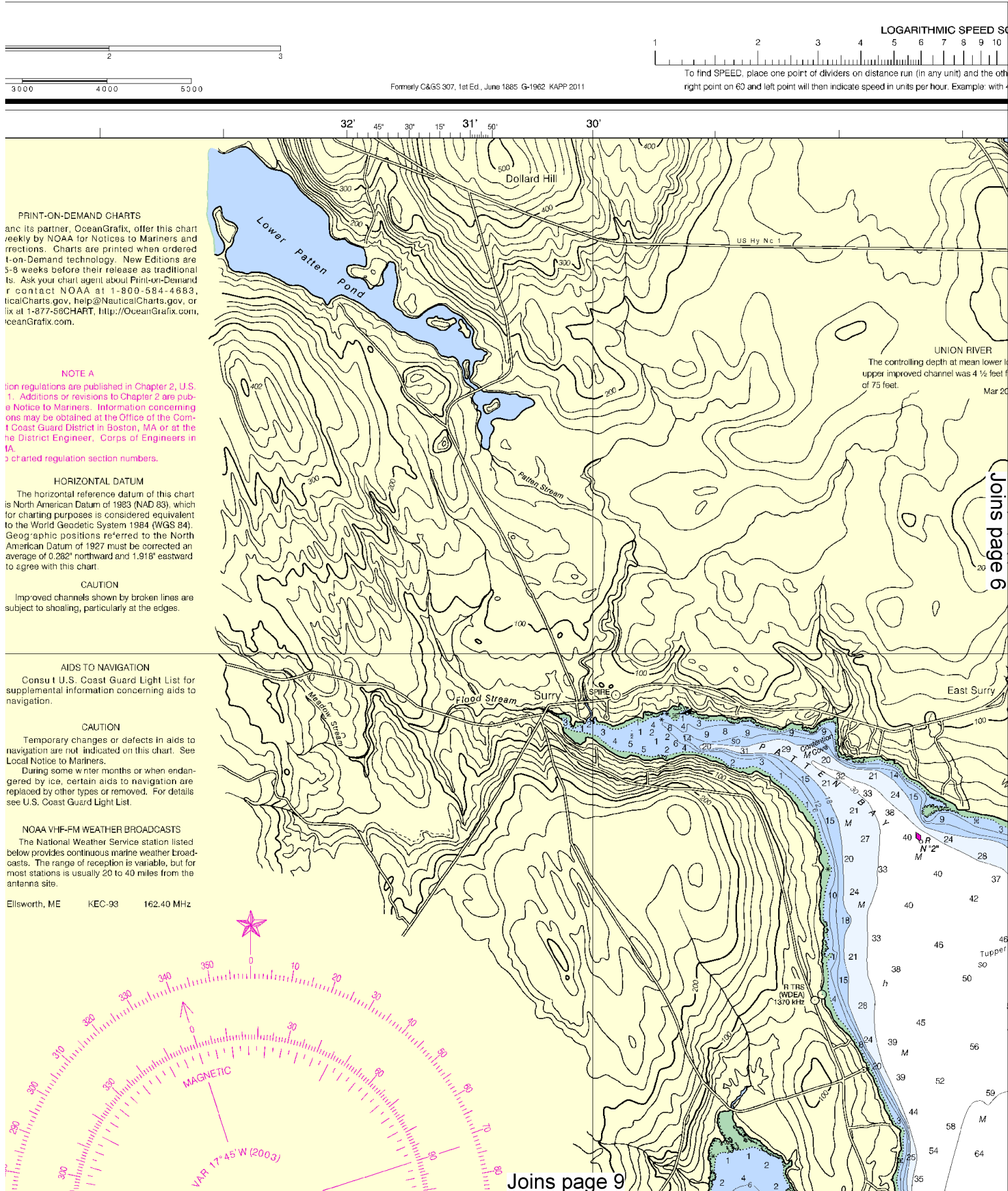
See Note on page 5.



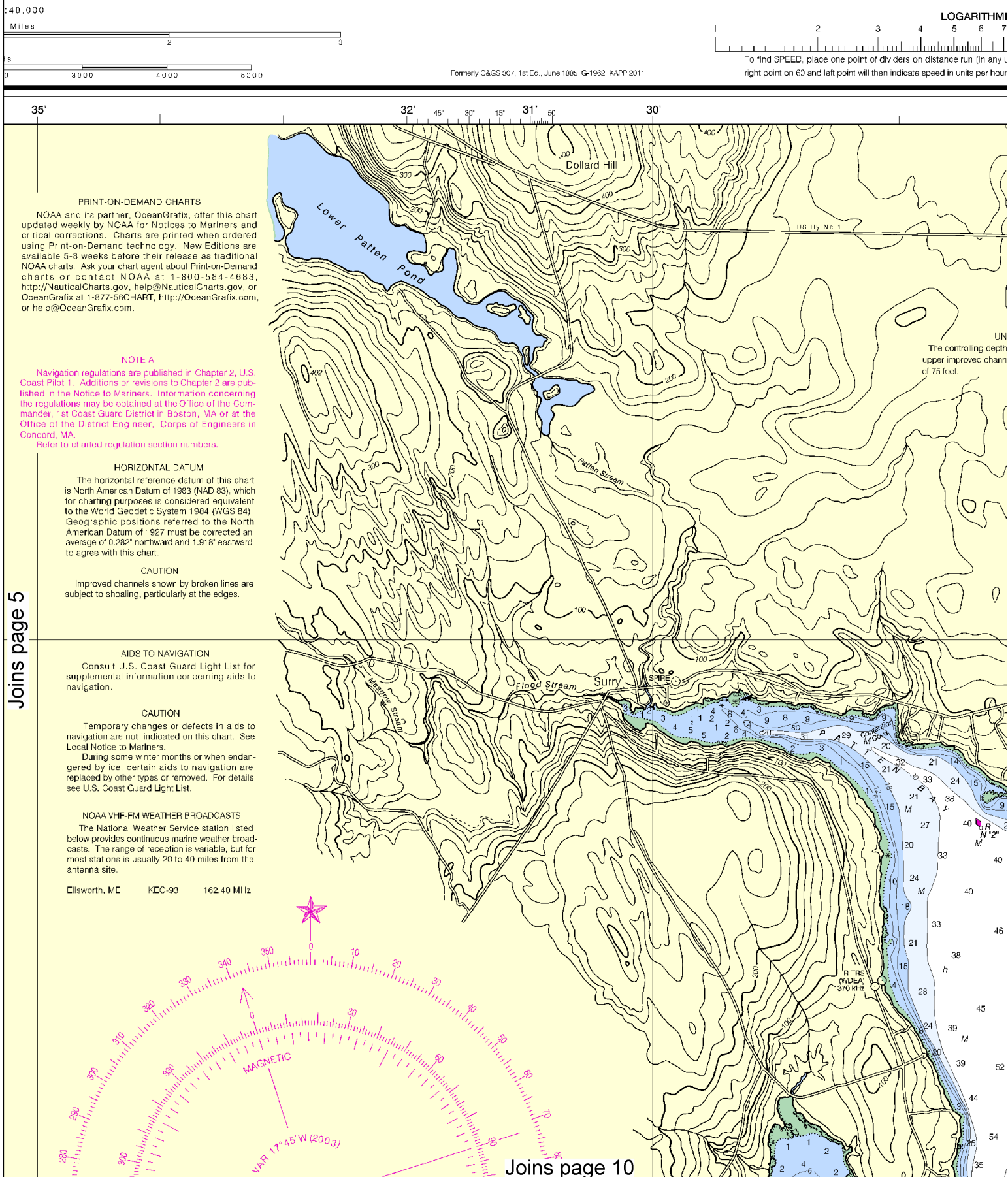
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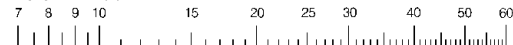


This BookletChart was reduced to 75% of the original chart scale.  
The new scale is 1:53333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.





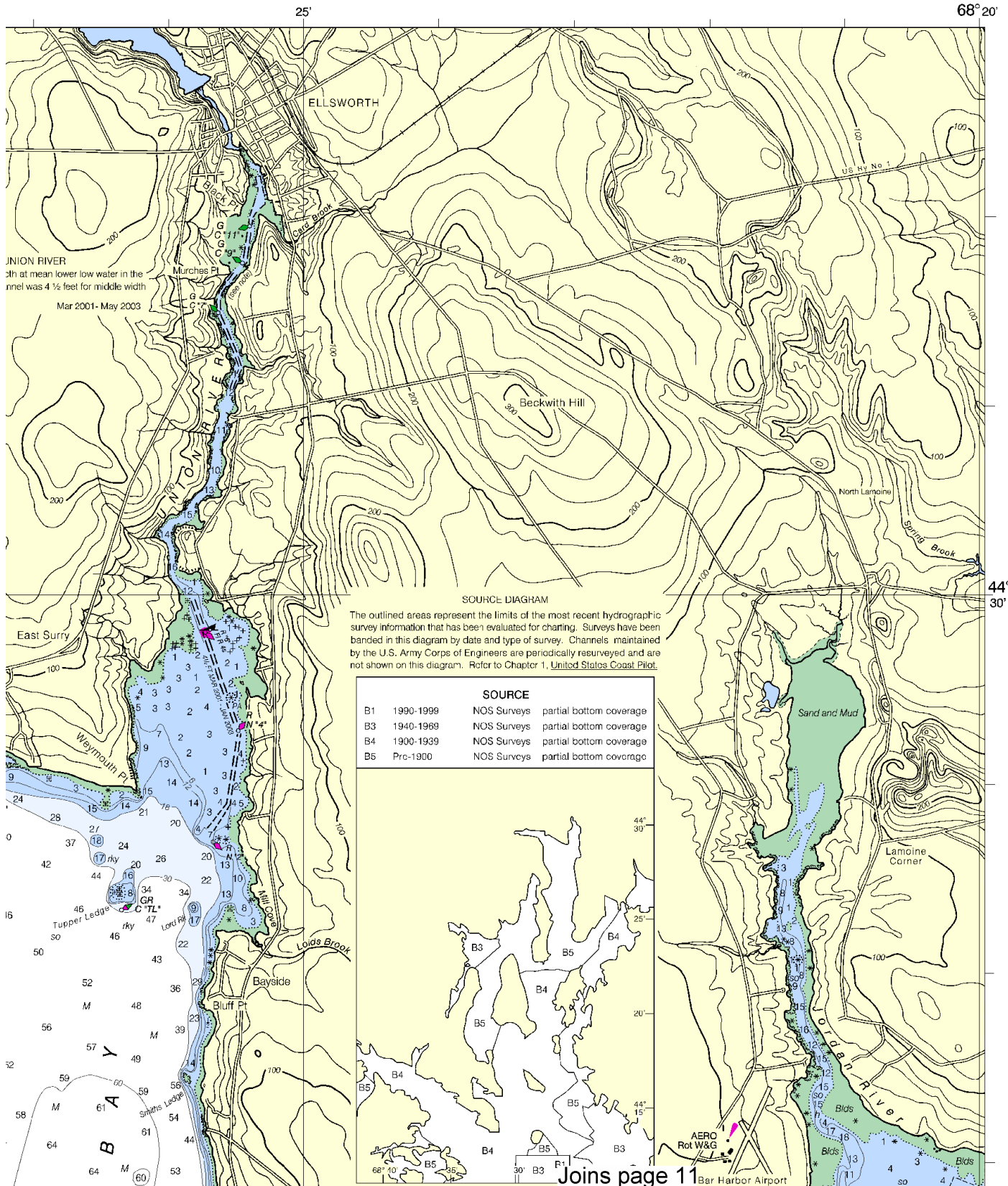
# VIC SPEED SCALE



Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots

## SOUNDINGS IN FEET

Nautical Chart Catalog No. 1, Panel I



13316

This BookletChart has been updated with: Coast Guard Local Notice To Mariners: 0710 2/16/2010,  
 NGA Weekly Notice to Mariners: 0910 2/27/2010,  
 Canadian Coast Guard Notice to Mariners: 1209 12/25/2009.

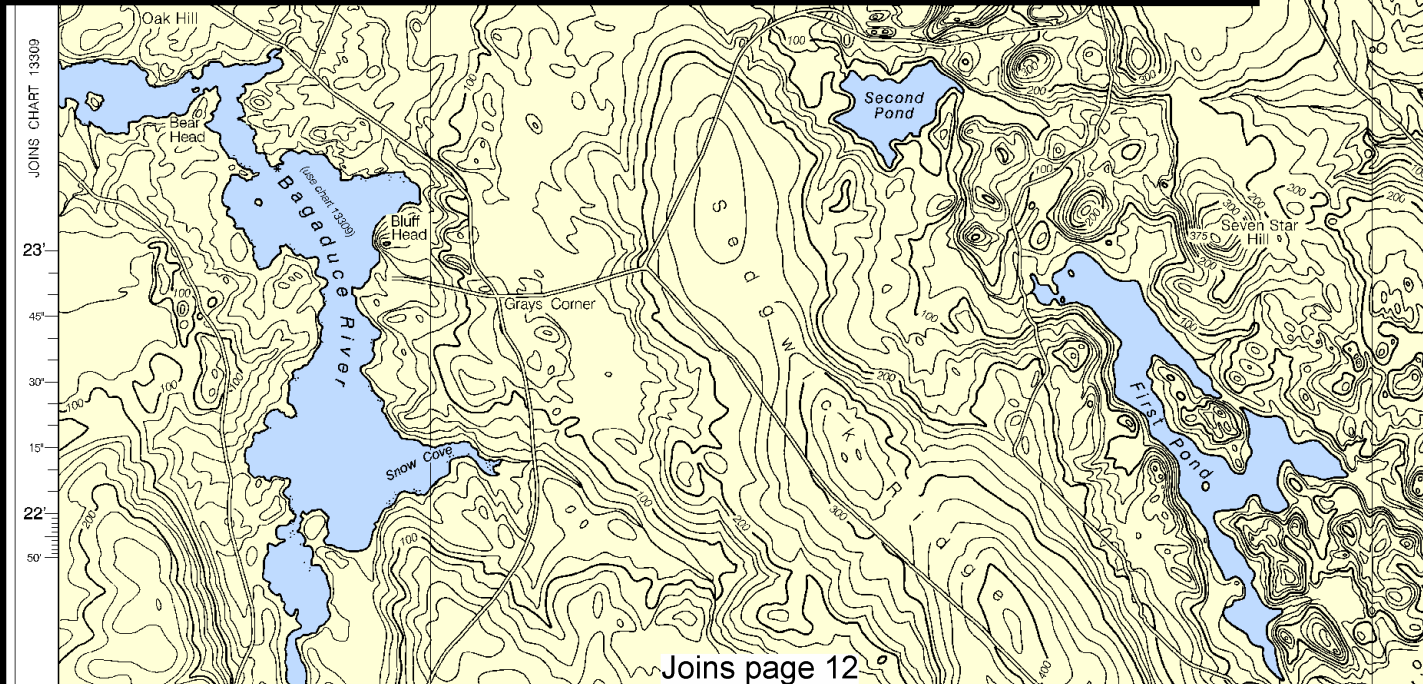
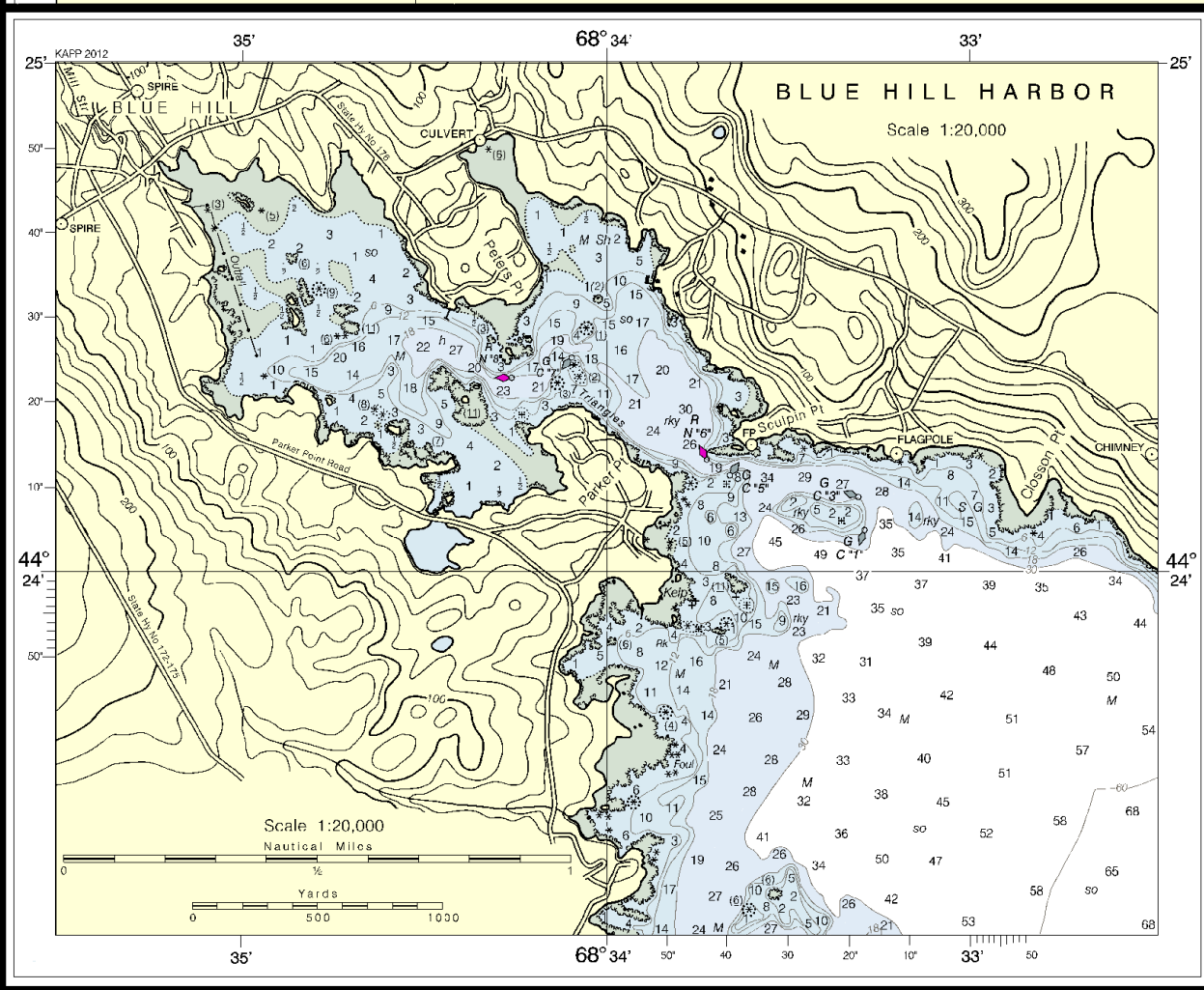
7

to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

Joins page 4

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, and J.S. Coast Guard.

SUPPLEMENTAL INFORMATION  
Consult: U.S. Coast Pilot 1 for important supplemental information.



8



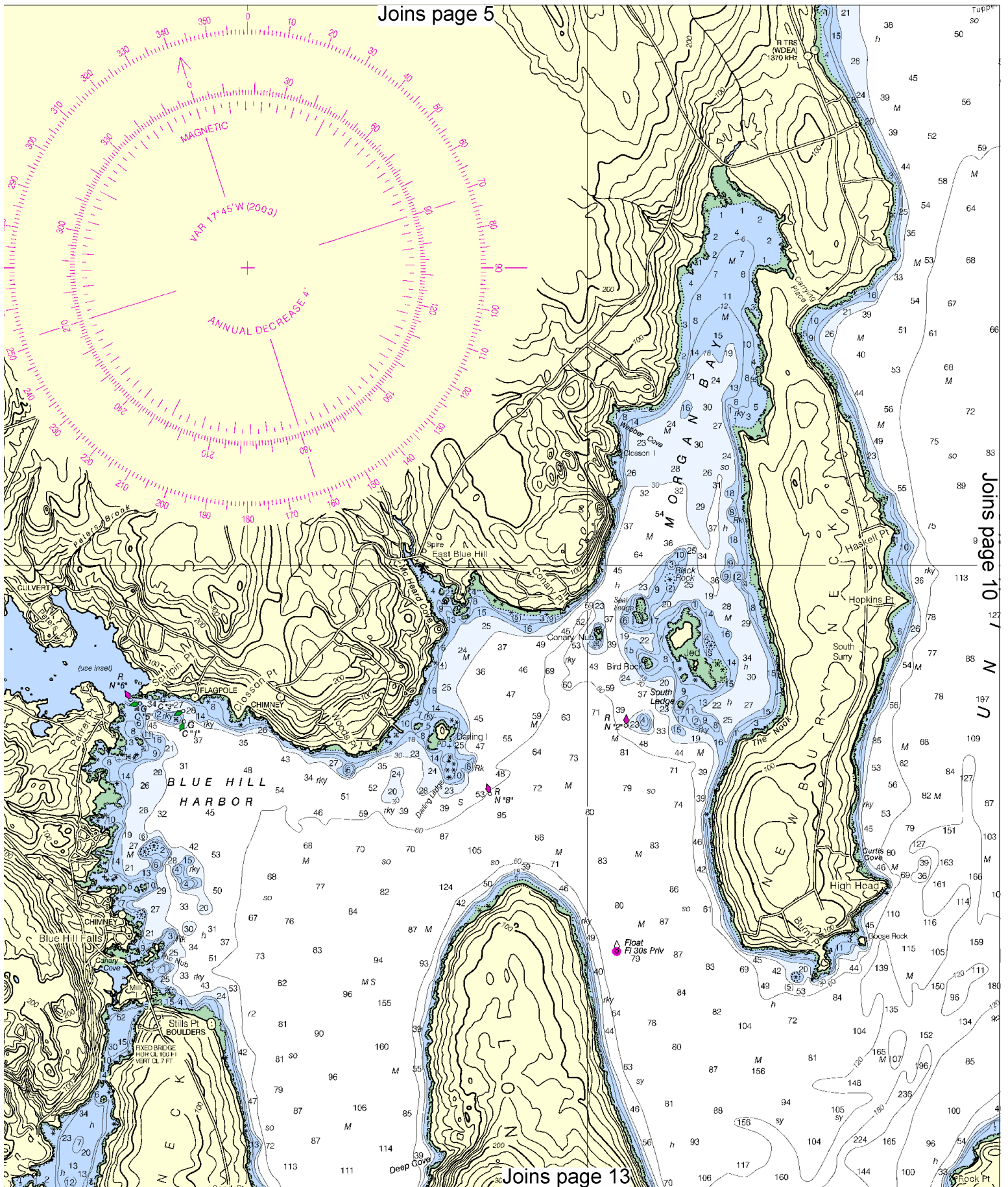
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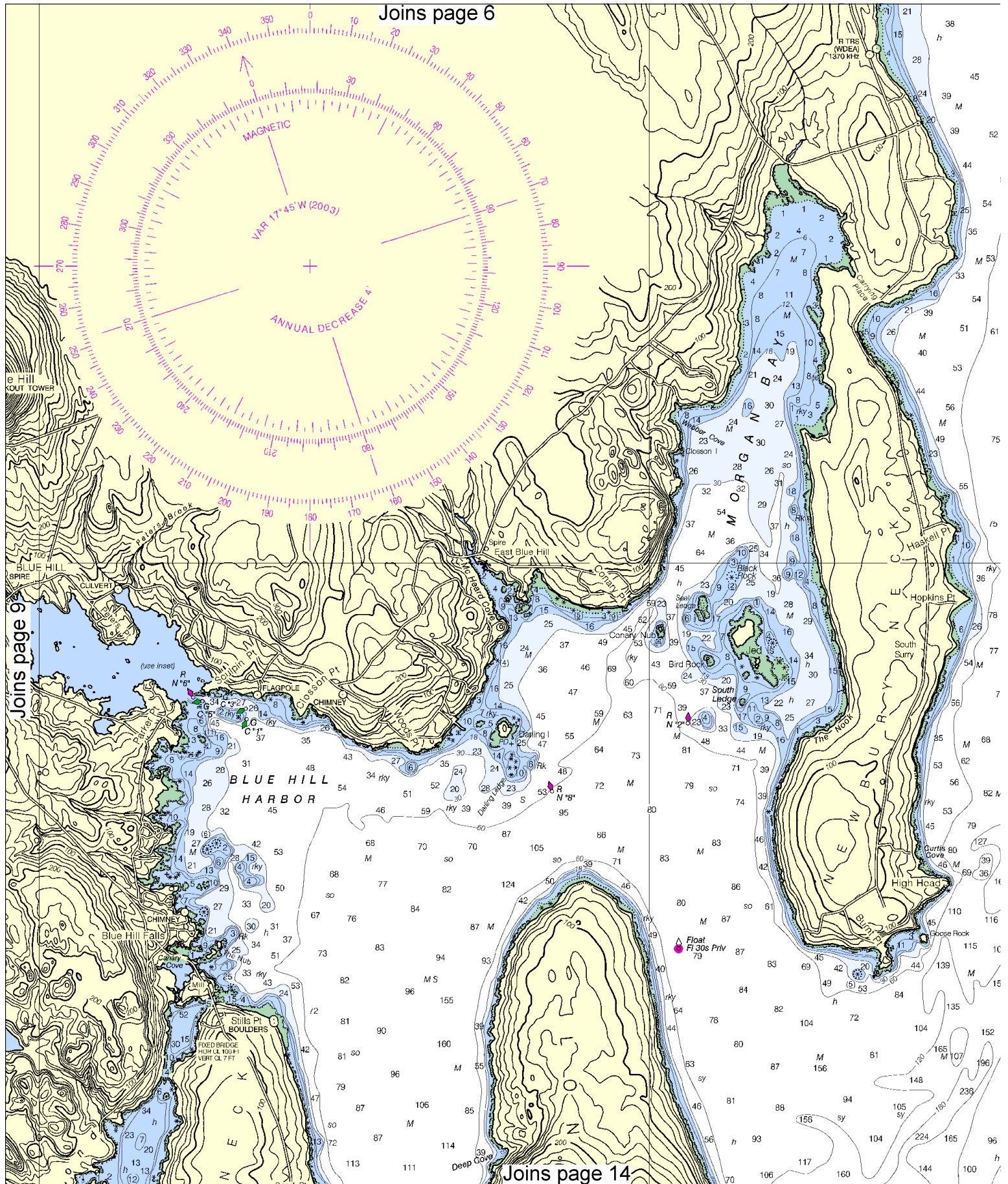
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Nautical Miles

See Note on page 5.

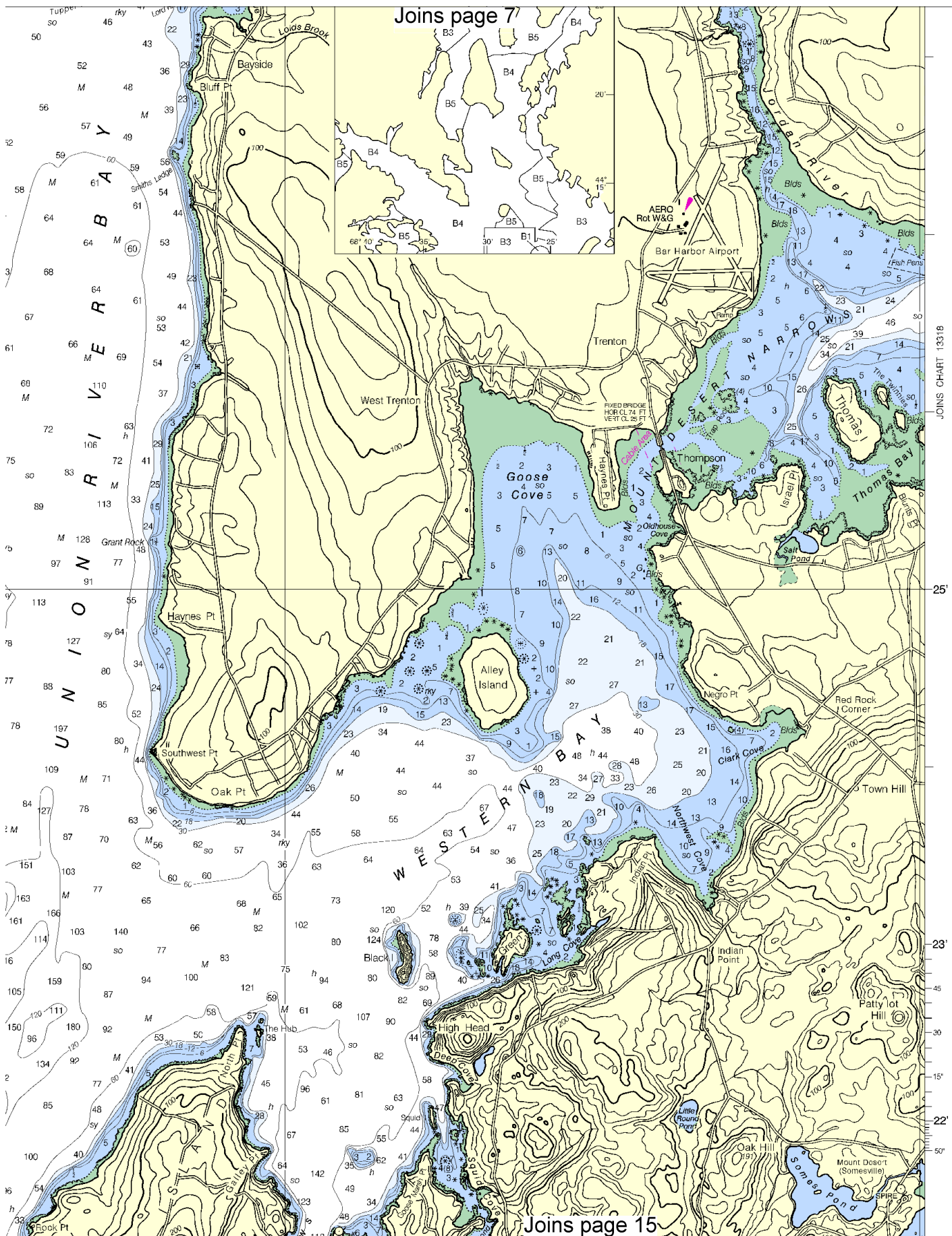


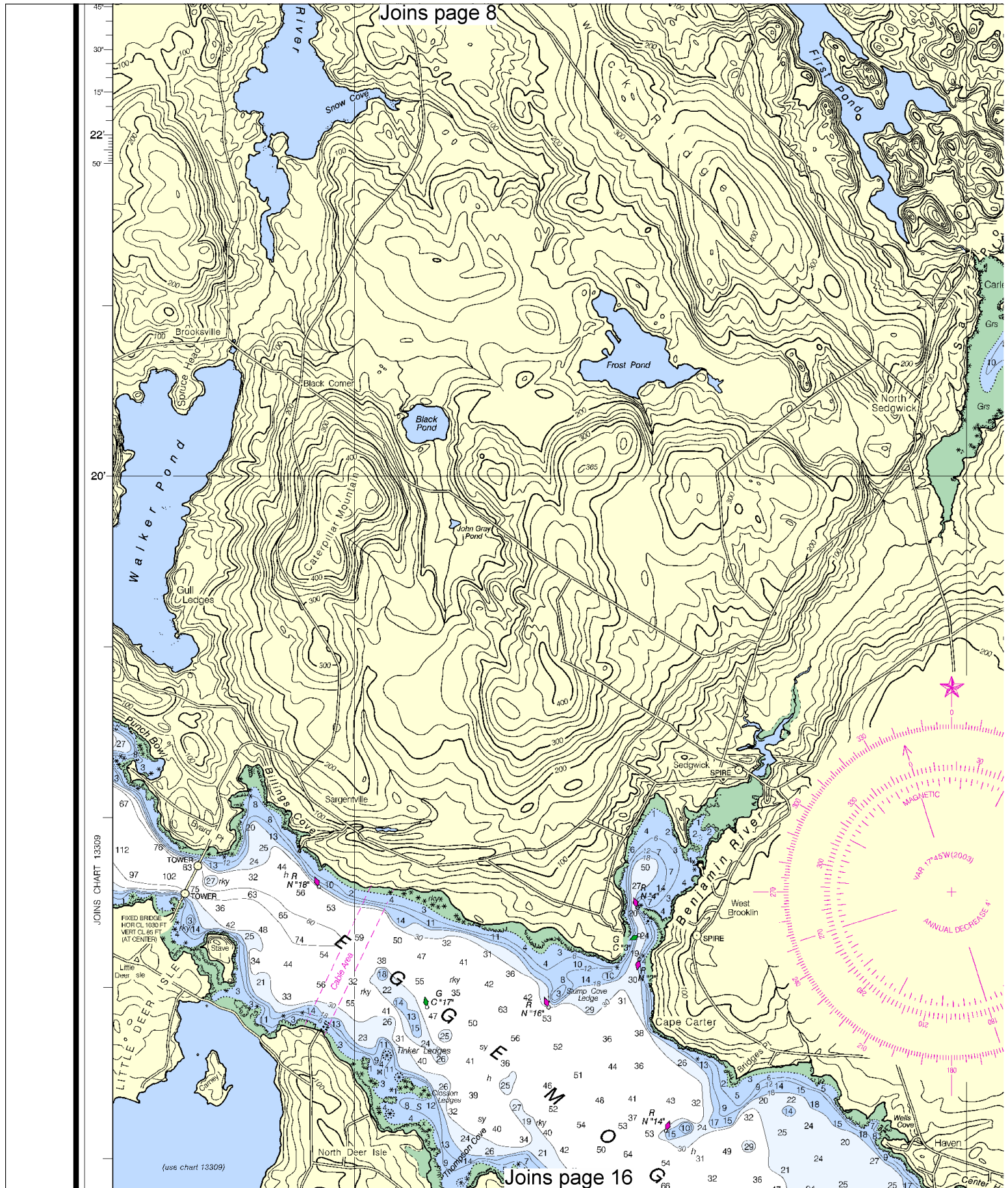












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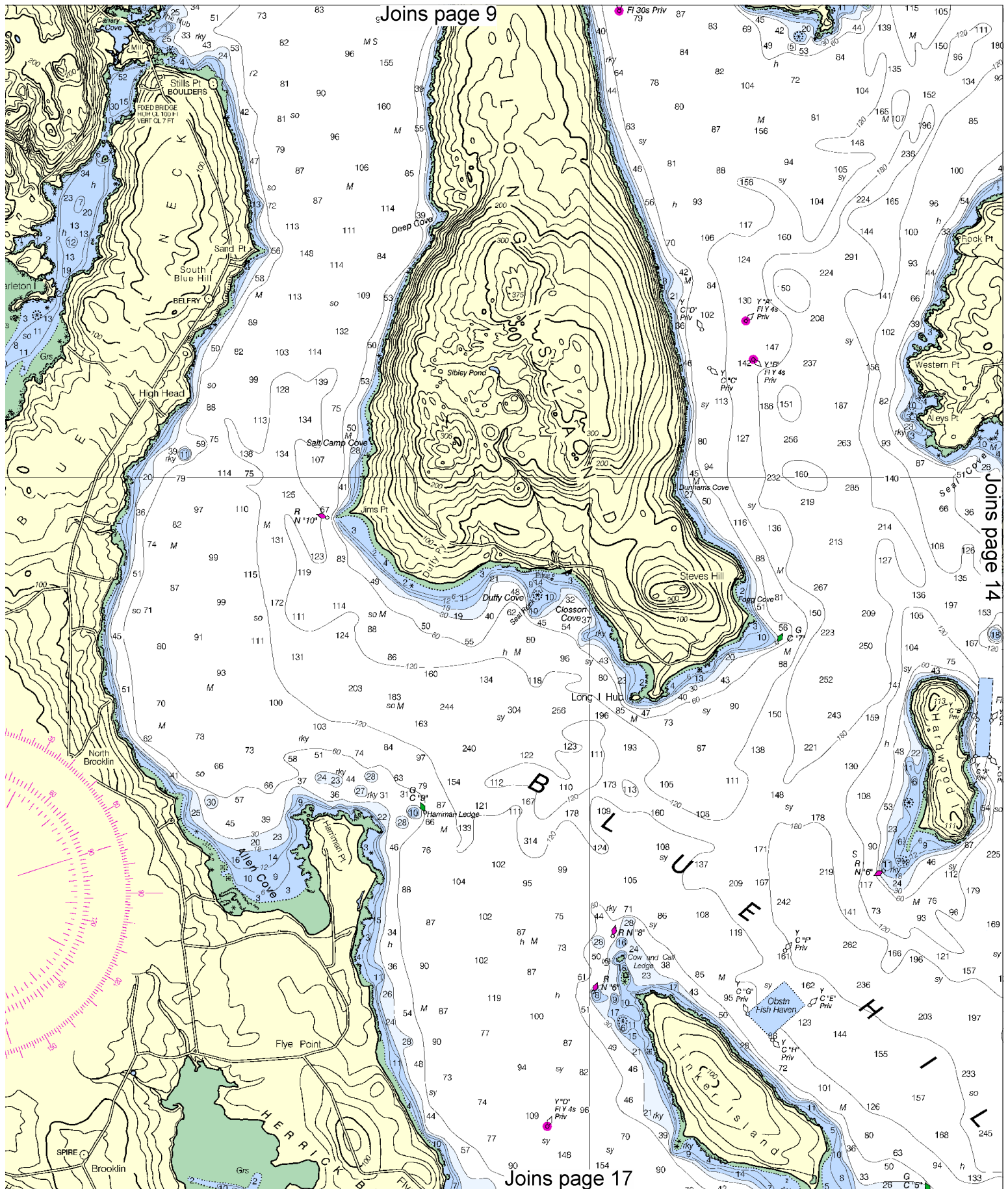
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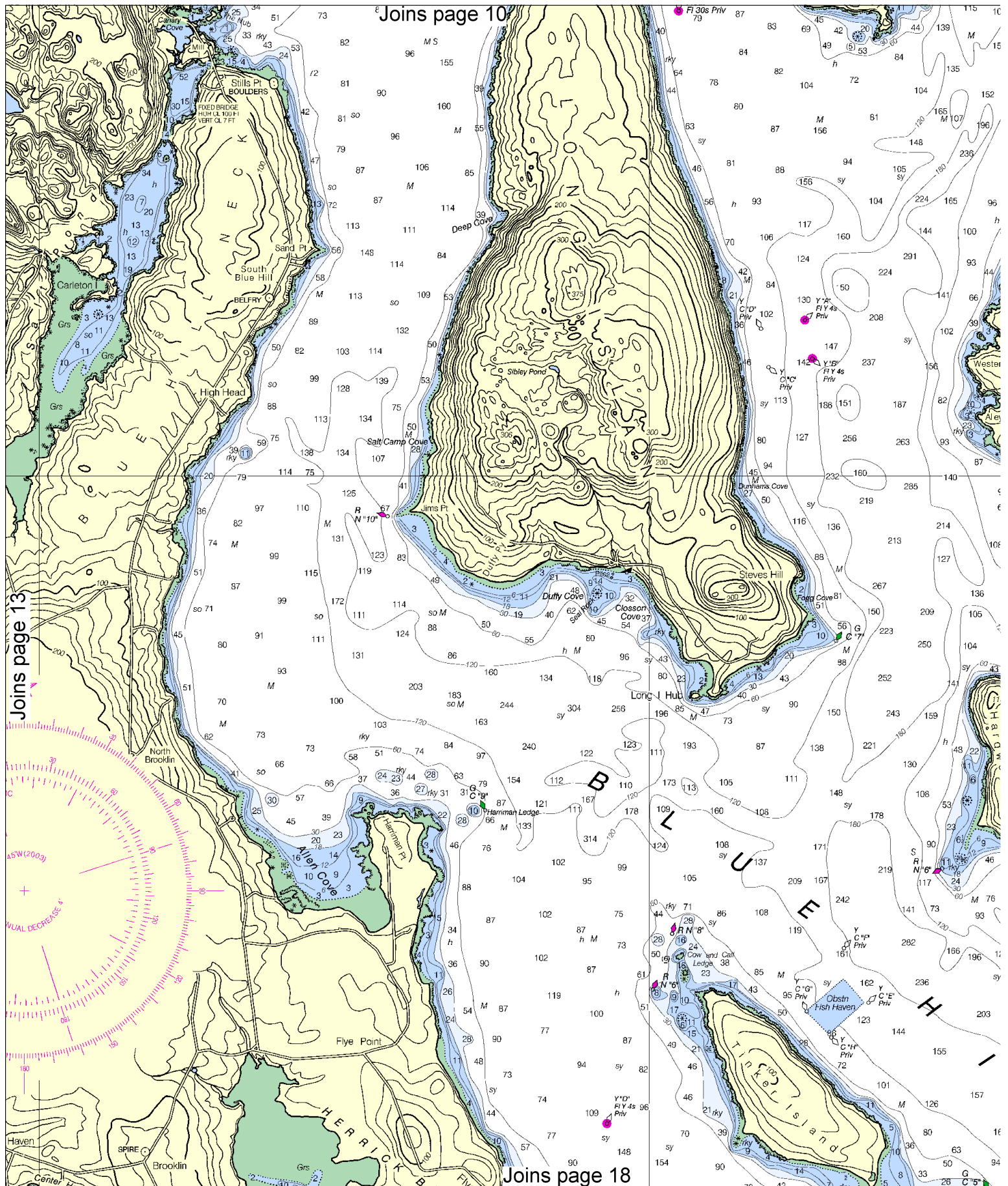
SCALE 1:40,000  
Nautical Miles

See Note on page 5.









14



Printed at reduced scale.

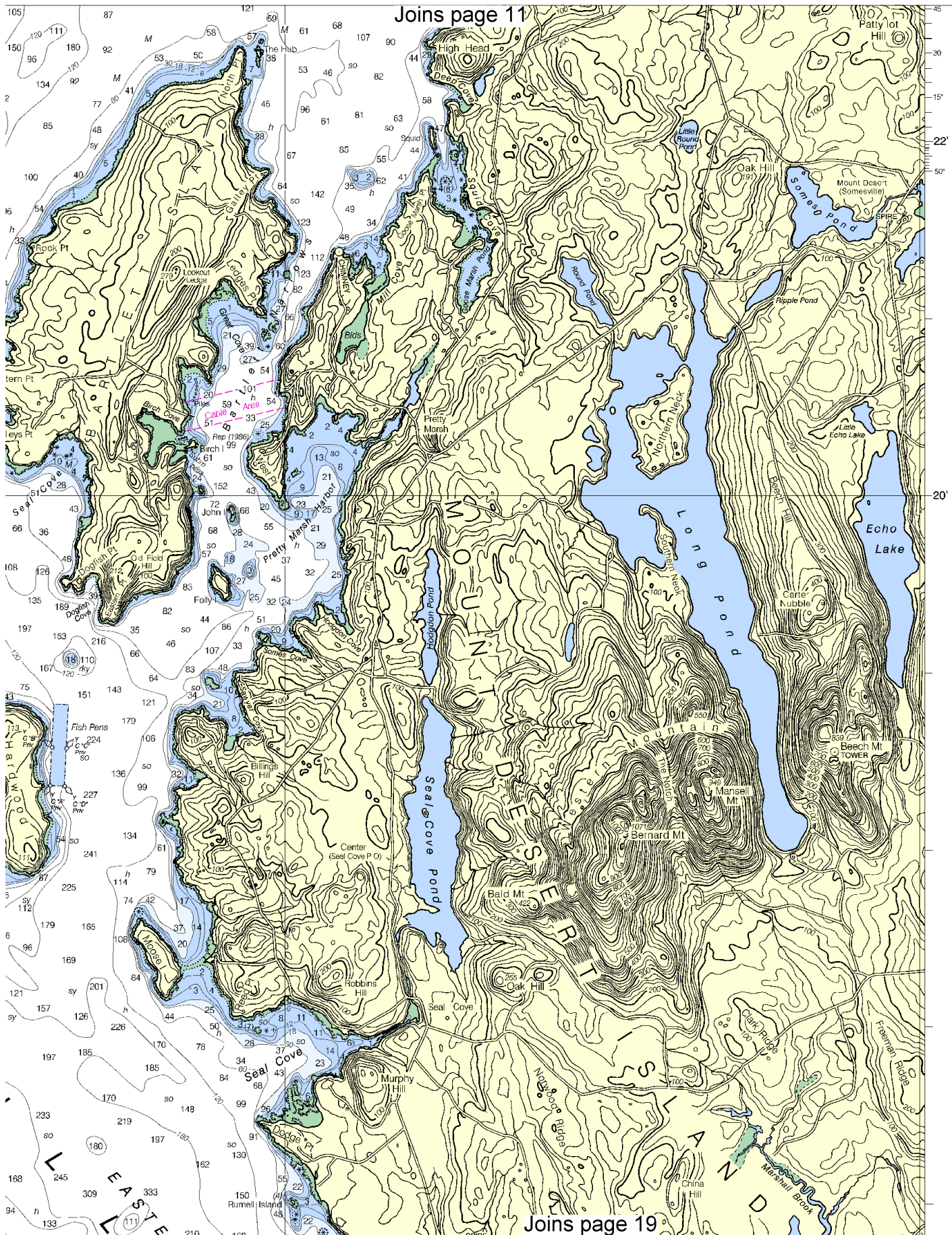
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Nautical Miles

See Note on page 5.



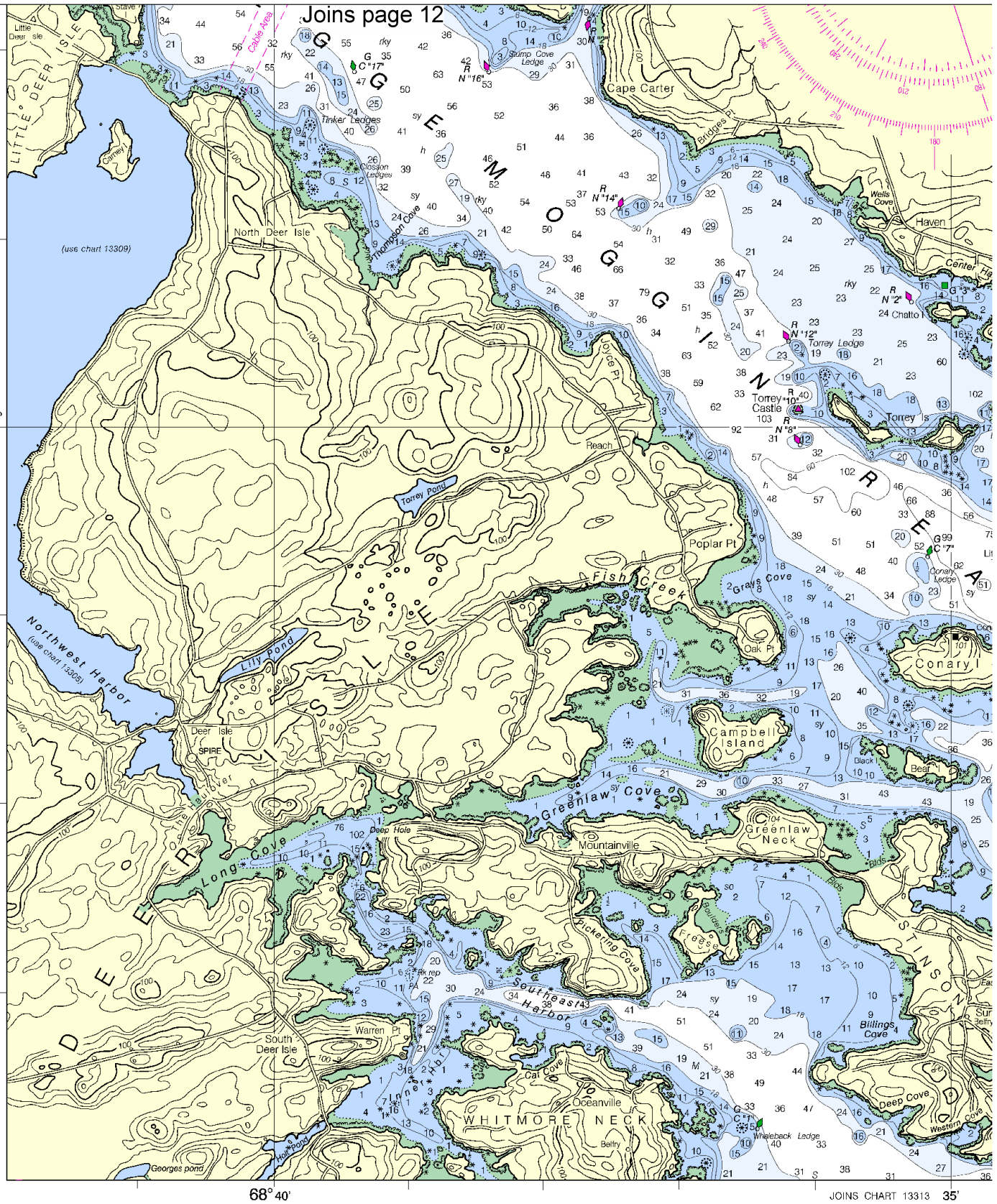


Joins page 11



Joins page 19





22nd Ed., May/03 ■ Corrected through NM May 3/03  
Corrected through LNM Apr. 22/03

13316

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

SOUNDINGS II

16



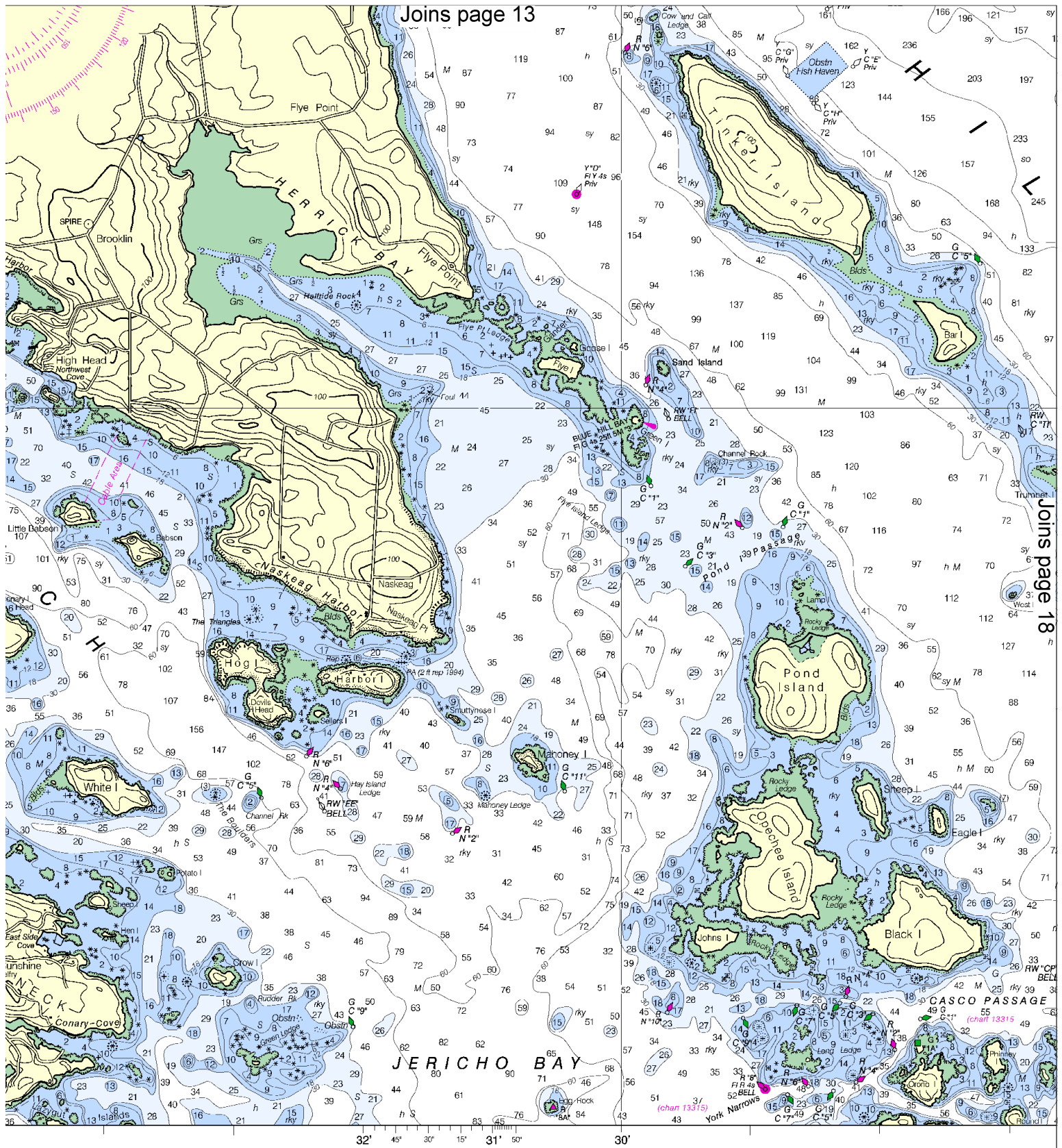
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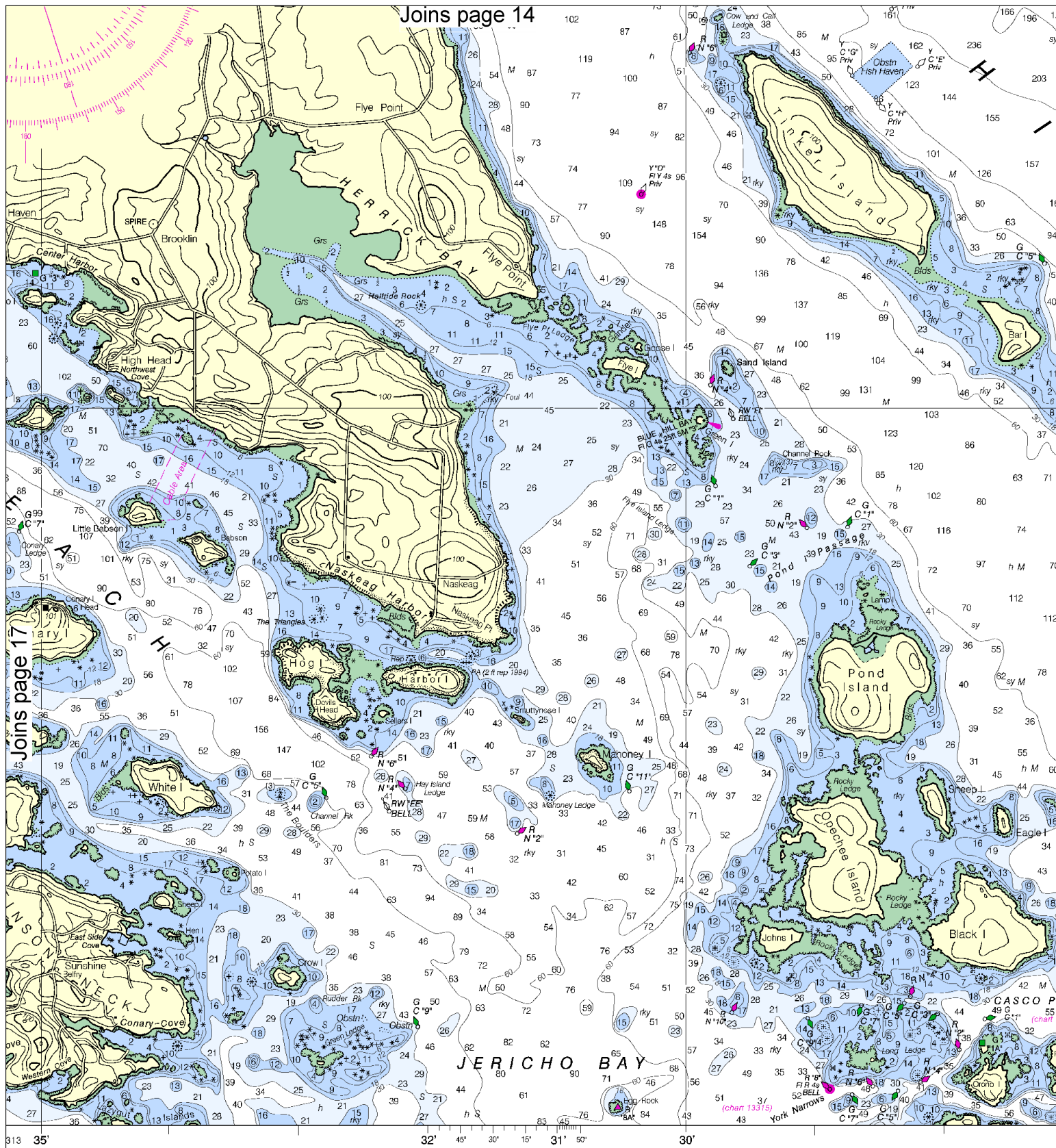
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Nautical Miles

See Note on page 5.



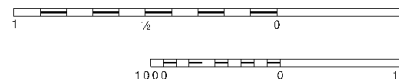






GS IN FEET

Published at Washington, D.C.  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SERVICE  
COAST SURVEY



18



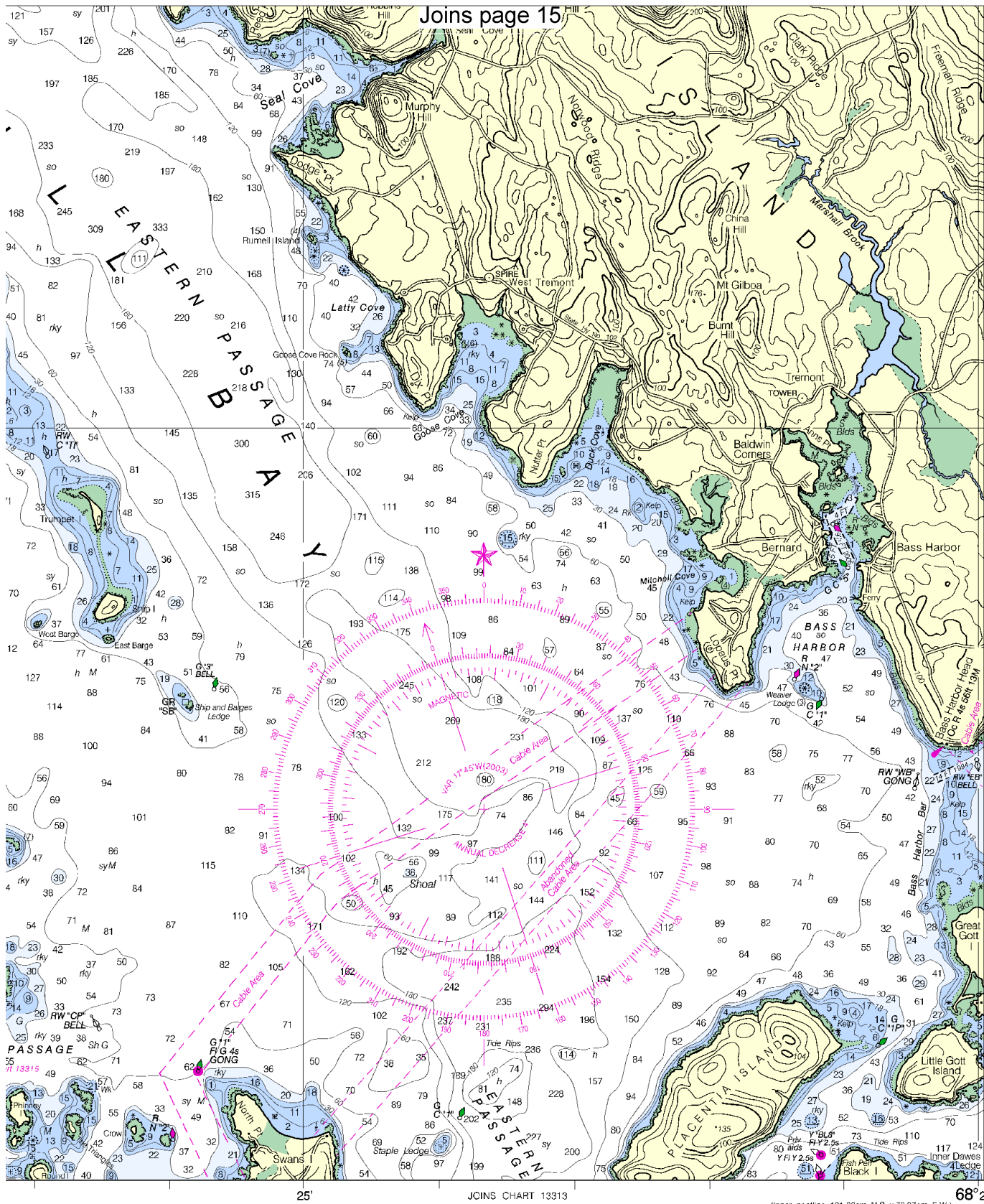
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SCALE 1:40,000  
Nautical Miles

See Note on page 5.







44° 15'

JOINS CHART 13313

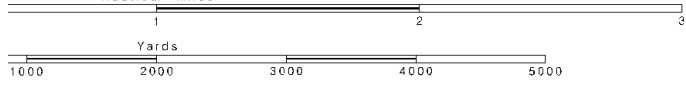
68° 20'

FATHOMS	FEET	METERS
1	6	1.1
2	12	2.1
3	18	3.3
4	24	4.4
5	30	5.5
6	36	6.6
7	42	7.7
8	48	8.8
9	54	9.9
10	60	11.0
11	66	12.1
12	72	13.2
13	78	14.3
14	84	15.4
15	90	16.5
16	96	17.6
17	102	18.7

ED. NO. 22

NSN 7642014010473  
NIMA REFERENCE NO. 13XHA13316

SCALE 1:40,000  
Nautical Miles



Blue Hill Bay  
SOUNDINGS IN FEET - SCALE 1:40,000

13316

## EMERGENCY INFORMATION

### VHF Marine Radio channels for use on the waterways:

**Channel 6** – Inter-ship safety communications.

**Channel 9** – Communications between boats and ship-to-coast.

**Channel 13** – Navigation purposes at bridges, locks, and harbors.

**Channel 16 – Emergency, distress and safety calls** to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

**Channel 22A** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

**Channels 68, 69, 71, 72 & 78A** – Recreational boat channels.

### Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

### **HAVE ALL PERSONS PUT ON LIFE JACKETS !!**

### Mobile Phones – Call 911 for water rescue.

**Coast Guard Group Southwest Harbor** – 207-244-4204

**Coast Guard Rockland** – 207-596-6666

**Coast Guard Station Southwest Harbor** – 207-244-4270

**Maine Marine Patrol** – 800-452-4664

**Coast Guard Atlantic Area Cmd** – 757-398-6390

**NOAA Weather Radio** – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

**Getting and Giving Help** – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



## NOAA CHARTING PUBLICATIONS

**Official NOAA Nautical Charts** – NOAA surveys and charts the national and territorial waters of the U.S., including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official Print-on-Demand Nautical Charts** – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at [www.OceanGrafix.com](http://www.OceanGrafix.com).

**Official Electronic Navigational Charts (NOAA ENC<sup>®</sup>)** – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official Raster Navigational Charts (NOAA RNC<sup>™</sup>)** – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official BookletCharts<sup>™</sup>** – BookletCharts<sup>™</sup> are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is [www.NauticalCharts.gov/bookletcharts](http://www.NauticalCharts.gov/bookletcharts).

**Official PocketCharts<sup>™</sup>** – PocketCharts<sup>™</sup> are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

**Official U.S. Coast Pilot<sup>®</sup>** – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official On-Line Chart Viewer** – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is [www.NauticalCharts.gov/viewer](http://www.NauticalCharts.gov/viewer).

**Official Nautical Chart Catalogs** – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to <http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm>.

**Internet Sites:** [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov), [www.NOAA.gov](http://www.NOAA.gov), [www.TidesandCurrents.NOAA.gov](http://www.TidesandCurrents.NOAA.gov), [www.NOS.NOAA.gov](http://www.NOS.NOAA.gov).